

Rec'd 10 03 JUN 2005

101537946

INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR02/02500

A. CLASSIFICATION OF SUBJECT MATTER

IPC7 H04B 7/26

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 H04B H04L H04M H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Korean Patents and applications for inventions since 1975, Korean Utility models and applications for Utility models since 1975, IEEE technical document since 1980

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6233452 BA (IBM) 20010515 See whole the document	1-10
A	JP 13095058 A2 (NEC) 20010406 See abstract, figure1-3	1,7,10
A	JP 13245358 A2 (NEC) 20010907 See abstract, figure1-2	1,7,10

 Further documents are listed in the continuation of Box C. See patent family annex.

- * Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search 16 SEPTEMBER 2003 (16.09.2003)	Date of mailing of the international search report 17 SEPTEMBER 2003 (17.09.2003)
Name and mailing address of the ISA/KR Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea	Authorized officer KIM, Yong Jae Telephone No. 82-42-481-5716
Facsimile No. 82-42-472-7140	

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/KR02/02500

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6233452 BA	20010515	CA 2240654 AA EP 889660 A2 JP 11041643 A2 KR 276405 B1 CN 1098607 B	19990104 19990107 19990212 20001215 20030108
JP 13095058 A2	20010406	NONE	
JP 13245358 A2	20010907	NONE	